| Index of Claims   |             |
|---|-------------|
| RIPRI ARTID FIRM RIPRI (1811) (1811) (1811) (1815 (1811) (1816) | 10/627,759  |
|   | Examiner    |
|   | Sang Y Paik |

Application No.

10/627,759

Examiner

Sang Y Paik

Applicant(s)

YAO, ISOJI

Art Unit

3742

| 1 | Rejected |
|---|----------|
| = | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| - | Interference |

| 1 | A | Appeal   |
|---|---|----------|
| - | 0 | Objected |

|                 | aim      | Date     |          |          |          |              |           | 1::::    | Claim Date |          |              |                    |          |          |          |          | 1        | CI       | aim      | Date   |           |   |  |          |          |          |          |          |               |          |          |          |               |
|-----------------|----------|----------|----------|----------|----------|--------------|-----------|----------|------------|----------|--------------|--------------------|----------|----------|----------|----------|----------|----------|----------|--------|-----------|---|--|----------|----------|----------|----------|----------|---------------|----------|----------|----------|---------------|
| <u> </u>        |          | ┢        | 1        | <u> </u> | Γ,       | T            | Ť         | Т        | Т          | Г        |              | <del></del>        |          | $\vdash$ | Г        |          |          |          | T        | Т      | Т         |   |  | •        | ⇈        |          |          |          |               |          | П        |          | Г             |
| Flag            | Original | S<br>24  | 18/      | 8/4      |          |              |           |          |            |          |              | Flag               | Original |          |          |          |          |          |          |        |           |   | F  | Original |          |          |          |          |               |          |          |          |               |
|                 | ب        | 64       | 61       | or       | L        | ┞            | L         | ╄        | ╀          | L        |              | <u> </u>           | 51       | ┞        | _        | Н        | Н        | $\dashv$ | +        | +      | ╀         | ł | <u> </u>   | 101      | H        | $\vdash$ | H        | ⊢        | Н             | -        | Н        | $\dashv$ | -             |
| ├               | 1        | _        | 는        | 는        | ⊢        | ⊢            | ╀╌        | ╁        | ╁─         | ⊢        |              | <del> </del>       | 52       | ╁        | -        | Н        | Н        | $\dashv$ | +        | 十      | ┰         | ı |  | 102      | ╁        | $\vdash$ | Н        | ┢        |               |          | H        | $\dashv$ | _             |
| $\vdash$        | 3        | 1        | -        | Z        | ⊢        | ⊢            | ⊢         | ┢        | ╁          | ╁        |              |                    | 53       | ╀╌       | H        | H        | Н        | Н        | -        | +      | +         | t | <b></b> -  | 103      | ╁        | _        |          | -        | Н             |          | H        | ╛        | $\overline{}$ |
| ├               |          | ۲        | 1        | ح        | <u> </u> | ╌            | ╀╌        | ╁        | ╁          | ⊢        |              |                    | 54       | ╁        | H        |          | Н        | $\dashv$ | +        | +      | ╅         | ł | <del>                                     </del> | 104      | H        |          | Н        |          |               | -        | H        | $\dashv$ | _             |
| <u></u>         | 5        | ⊢        | ┸        | -        | ┝        | -            | ╂         | ╀        | ╂╌         | ₩        |              | <u> </u>           | 55       | ╁╾       | ┝        | Н        | Н        | $\dashv$ | ╅        | ╅      | ╁         |   | $\vdash$   | 105      | -        |          | Н        | Н        | Н             | Н        | Н        | $\neg$   | _             |
| ├               | 6        | ⊢        | ₽        | r        | F        | ┝            | ╁         | ╁        | ┢          | ╁╌       |              | ⊢                  | 56       | ╌        | -        | Н        | $\dashv$ | $\dashv$ | ┪        | +      | ╅         | 1 | <b>—</b>   | 106      | Н        | Н        | Н        |          | Н             | Н        | $\vdash$ | $\dashv$ | _             |
| <u> </u>        | 7        | ⊢        | ⊢        | $\vdash$ | $\vdash$ | ╁─           | ╁         | ╁        | ╀╌         | ┢        |              | ┢                  | 57       | ╁╴       | Н        | Н        | $\dashv$ | ┪        | +        | +      | 十         | t | <u> </u>   | 107      | ┢        | Н        | Н        | _        | Н             | Н        | $\dashv$ | $\dashv$ |               |
| $\vdash$        | 8        | ├        | ⊢        | $\vdash$ | ⊢        | ┢            | -         | ╁        | ⊢          | ⊢        |              | ⊢                  | 58       | ╁╌       | $\vdash$ | Н        | -        | $\dashv$ | +        | +      | +         |   |  | 108      | Н        | Н        | Н        | -        | Н             |          | $\dashv$ | _        |               |
|                 | 9        | ┢╌       | H        | Н        | $\vdash$ | ┢            | ┢         | ╁        | ⊢          | Н        |              |                    | 59       | 1-       | $\vdash$ |          | $\dashv$ | _        | ╅        | +      | ╅┈        | 1 |  | 109      | $\vdash$ |          | Н        | _        | т             | П        | ┪        | $\dashv$ |               |
| <b></b>         | 10       | ┼─       | -        | Н        | _        | ┢            | ┢         | ╁        | ╁          | ┢        |              | ├                  | 60       | ╁╌       | -        | -        | $\dashv$ |          | ╅        | +      | +         | 1 |  | 110      | ╁        | Н        | Н        |          | Н             | Н        | Н        | _        |               |
| ├               | 11       | ⊢        | -        | -        | _        | ┝            | ┢         | ╁╴       | ┢          | ┢        |              | <del></del>        | 61       | 1        | Ι        | -        | -        | -1       | -+       | +      | +         | t | _  | 111      | ┰        | П        | Н        |          |               | Н        | Н        | _        |               |
| $\vdash$        | 12       | ┢        | -        | $\vdash$ | Η-       | $\vdash$     | ┢         | $\vdash$ | ╁          | $\vdash$ |              | <del></del>        | 62       | -        | Н        |          | $\dashv$ |          | $\dashv$ | +      | ╅         | ı |  | 112      | $\vdash$ | Н        | Н        |          | Н             |          |          | $\neg$   |               |
|                 | 13       | ┢        | $\vdash$ | $\vdash$ | $\vdash$ | <del> </del> | ┢         | ┢        | $\vdash$   | t        |              |                    | 63       | Н        | Н        |          | 7        | ┪        | $\dashv$ | 十      | +         | ı |  | 113      | П        |          | П        |          | Н             |          | H        | _        | Г             |
| $\vdash$        | 14       | Н        | -        | Н        |          | -            | +-        | $\vdash$ | $\vdash$   | H        |              |                    | 64       | ✝        | Н        |          | -        | ┪        | +        | 十      | $\top$    |   |  | 114      | П        | П        | Н        | _        | Н             | Н        | $\Box$   | $\neg$   | Т             |
| -               | 15       | $\vdash$ | Н        | Н        | H        | -            | 1         | ✝        | ┪          | Н        |              |                    | 65       | $\vdash$ | Н        | $\vdash$ | -        | ┪        | +        | +      | $\top$    | Ш |  | 115      | П        | Н        | Н        | П        | Н             | Н        | $\sqcap$ | $\dashv$ |               |
| $\vdash$        | 16       | <b>—</b> | $\vdash$ | Н        | -        | $\vdash$     | $\vdash$  | 1        | $\vdash$   | ┢        |              |                    | 66       |          | Н        |          | $\dashv$ | -        | 十        | +      | 十         |   |  | 116      |          | $\vdash$ | М        | $\neg$   | Н             | _        |          | _        |               |
|                 | 17       | -        | Н        | Н        | -        | $\vdash$     | ┢         |          | $\vdash$   | -        |              |                    | 67       |          | Н        | $\dashv$ | $\dashv$ | -+       | 十        | +      | +-        | Ш |  | 117      | H        | H        | H        | _        | Н             | Н        | $\vdash$ | $\dashv$ | _             |
| <del>  </del>   | 18       | -        | H        | Н        | $\vdash$ | ⊢            | ⊢         | $\vdash$ | ┢          | $\vdash$ |              | _                  | 68       | $\vdash$ | Н        | $\dashv$ | ┪        | -        | +        | ╅      | +-        |   | $\vdash$   | 118      | Н        | Н        | Н        | _        | Н             |          | $\dashv$ | ┪        |               |
| ┝┈┤             | 19       | Н        | Н        | Н        |          | ⊢            | ┢         | $\vdash$ | ⊢          | Η-       |              | _                  | 69       | Η-       | Н        | $\dashv$ | -        |          | 十        | ╁      | ╅         |   | _  | 119      | Н        | Н        |          |          | Н             | $\vdash$ | $\dashv$ | ┪        |               |
|                 | 20       | -        | H        | Н        | -        | ⊢            | -         | ┢        | ┢          | ┢        |              |                    | 70       | Н        |          |          | -        | -        | 十        | +      | +         |   |  | 120      | Н        | Н        | Н        |          |               |          | $\dashv$ | ᅱ        | _             |
| $\vdash$        | 21       | -        | Н        | -        | Н        | ⊢            | ┢         | H        | ┝          | -        |              | _                  | 71       | Н        | _        | -        | -        | ᅱ        | +        | +      | +         |   | _  | 121      | Н        |          | $\vdash$ |          |               |          |          | _        | _             |
| $\vdash$        | 22       | H        | Н        | -        | Н        | ⊢            | ┈         | -        | ⊢          | ┢        | :            |                    | 72       | H        | Н        | -1       | ┪        | ┪        | +        | ╅      | +-        | Ш |  | 122      | Н        |          |          |          |               |          |          | ┪        | _             |
| -               | 23       | $\vdash$ | -        | $\vdash$ |          | ⊢            | -         | -        | H          | -        |              | $\overline{\cdot}$ | 73       | H        | Н        | ┪        | -+       | ┪        | $\dashv$ | ╅      | +         |   |  | 123      | Н        | Н        | -        |          |               | Н        |          | ╛        | _             |
|                 | 24       | -        | Н        | $\dashv$ | -        | ⊢            | ┝         | ⊢        | ┝          | ⊢        |              |                    | 74       |          | Н        | ┪        | +        | ┪        | +        | ╈      | +-        |   |  | 124      | Н        | Н        |          |          |               |          | $\dashv$ | ┪        |               |
|                 | 25       | Н        | Н        | $\dashv$ |          | -            | H         | ╁╌       | -          | -        |              |                    | 75       | Н        | Н        | ┪        | ╛        | ┪        | $\dashv$ | ╅      | +         |   |  | 125      | Н        | $\vdash$ |          |          |               | _        | ┪        | ᅥ        | _             |
| Н               | 26       | ⊢        | Н        | $\dashv$ | -        | Н            | ╌         | Н        | ⊢          | $\vdash$ |              |                    | 76       | ⊢        | Н        | ᅱ        | Ŧ        | +        | ╅        | ╅      | +-        |   | $\vdash$   | 126      | Н        | Н        | -        |          | $\overline{}$ |          | ┪        | ᅱ        | _             |
| $\vdash$        | 27       | $\vdash$ |          | Н        |          | -            | ┈         | $\vdash$ | ┢          | ⊢        |              |                    | 77       | ┝        | Н        | ┪        | ┪        | -+       | +        | ╅      | ╅         | ١ |  | 127      | Н        | Н        |          | -        |               |          | 1        | ┪        | _             |
|                 | 28       | ⊢        | -        | -        | -        | Н            | -         | -        | -          | -        |              |                    | 78       | ╌        | Н        | -        | $\dashv$ | ┪        | +        | +      | +-        |   | _  | 128      | Н        | Н        | -        | Н        | $\vdash$      | _        | -        | ᅥ        | -             |
| $\vdash$        | 29       | -        | Н        |          | $\vdash$ | -            | -         | -        | $\vdash$   | $\vdash$ |              |                    | 79       | Н        | Н        | ┪        | ┪        | ┪        | +        | +      | +-        |   | H  | 129      | Н        | Н        | Н        | -        | $\vdash$      | $\vdash$ | 7        | ┪        | _             |
|                 |          | ⊢        | Н        |          |          | -            | ├         | Н        | ⊢          | Н        |              | -                  | 80       | Н        | Н        | ᅱ        | ┪        | ┪        | ╅        |        | ╫         |   |  | 130      | Н        | $\dashv$ | $\dashv$ |          | -             |          | -1       |          | _             |
| $\vdash$        | 30_      | $\vdash$ | Н        | -        | $\dashv$ | $\vdash$     | ├-        | Н        | $\vdash$   | Η-       |              |                    | 81       | Н        | Н        | ┥        | -+       | -        | ┿        | +      | ╫         |   |  | 131      | Н        | $\dashv$ | $\dashv$ | $\neg$   |               |          | -        | ᅱ        | -             |
|                 | 31       | $\vdash$ | Н        | $\dashv$ |          | -            | ⊢         | Н        | -          | Н        |              |                    | 82       | Н        | Н        | ┥        | ┪        | ╛        | ╅        | ┿      | ╁         |   |  | 132      | Н        | -        | -        | -        | -             | ᅱ        | ┪        | -        |               |
|                 | 32       | Н        | Н        | Н        | -        | Ь            | ⊢         | Н        | -          | Н        |              |                    | 83       | $\vdash$ | $\vdash$ | $\dashv$ | ╗        | ┥        | +        | ┿      | ╫         |   |  | 133      | Н        | -        | -        |          | -             | -        | -        | ᅱ        |               |
| <del>  </del>   | 33       | Н        | Н        |          |          | -            | -         | Н        | Н          | Н        |              | -                  | 84       | $\vdash$ | $\vdash$ | -        | $\dashv$ | $\dashv$ | +        | +      | +         |   |  | 134      | H        |          | -        | $\dashv$ | $\vdash$      | $\dashv$ | 十        | $\dashv$ | _             |
| $\vdash\vdash$  | 34<br>35 | $\vdash$ | _        | -        |          | -            | $\vdash$  | ┝╾┤      | $\vdash$   |          |              | -                  | 85       | Н        | $\dashv$ |          | ╌┼       | -        | +        | ╅      | ╁         |   |  | 135      | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$ | ┪        | ┪        | _             |
| $\vdash \vdash$ | 36       | Н        | $\dashv$ |          | -        | -            | ⊢         | Н        | Н          | Н        |              |                    | 86       | Н        | $\vdash$ | $\dashv$ | -+       | ┥        | +        | +      | +         |   |  | 136      | $\vdash$ | -        | $\dashv$ |          | ۲             | $\dashv$ | ┪        | ┪        |               |
|                 | 37       | Н        | $\dashv$ | $\dashv$ | $\dashv$ | -            | $\vdash$  | Н        | Н          | $\vdash$ |              | -                  | 87       | H        |          | -        | ↤        | +        | +        | +      | +         |   |  | 137      |          | -        | $\dashv$ | ᅱ        | -             |          | -+       | ⇥        |               |
|                 | 38       | Н        | $\dashv$ | $\dashv$ | $\dashv$ | -            | ⊢         | Н        | Н          | Н        |              | —                  | 88       | Н        | $\dashv$ | $\dashv$ | -+       | +        | +        | ╈      | +         |   |  | 138      | Н        | $\dashv$ | -        | $\neg$   | -             | -1       | 十        | ┪        | _             |
|                 | 39       | Н        | Н        | $\dashv$ | $\dashv$ |              | ⊢         | Н        | H          | $\vdash$ |              |                    | 89       | Н        | -        | ┪        | +        | -+       | +        | +      | +         |   |  | 139      | Н        | -        | -        | -        | $\dashv$      | -        | ┪        | ᅱ        |               |
|                 | 40       | Н        | Н        | -        | ┥        | H            | -         | ₩        | Н          | $\vdash$ |              | <del> </del>       | 90       | Н        | -        | +        | +        | ┪        | +        | +-     | $\top$    |   |  | 140      | Н        | $\dashv$ | $\dashv$ | -        | Н             | $\dashv$ | ┪        | $\dashv$ | _             |
|                 | 41       | Н        |          | -1       | $\dashv$ | Н            | -         | Н        | $\vdash$   | $\vdash$ |              | -                  | 91       | Н        | -        | ┪        | +        | -+       | +        | +      | +-        |   |  | 141      | Н        | $\dashv$ |          | $\dashv$ | $\dashv$      | _        | ┪        | +        |               |
| $\vdash$        | 42       | $\vdash$ | $\dashv$ | $\dashv$ | ┥        | Н            | -         | Н        | ⊢⊢         | $\vdash$ |              | $\dashv$           | 92       | Н        | -        | $\dashv$ | +        | ┪        | +        | +      | +         |   |  | 142      | H        | ┪        | -        | ᅱ        | Н             | -1       | +        | -        | _             |
| $\vdash$        | 43       | Н        | $\dashv$ |          | ┥        | Н            | Н         | Н        | Н          | Н        |              |                    | 93       | Н        | $\dashv$ | ┪        | -†       | ┪        | 十        | 十      | T         |   | -  | 143      | H        | ┪        | ᄀ        | $\dashv$ | $\neg$        | ┪        | -        | ┪        |               |
|                 | 44       | $\vdash$ | -        | -1       | 4        | $\dashv$     | -         | Н        | Н          | $\vdash$ |              |                    | 94       | Н        | -        | -        | +        | ┪        | -+       | ╁      | ┰         |   |  | 144      | Н        | 7        | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$ | ┪        | ┪        | _             |
|                 | 45       | $\dashv$ | $\dashv$ | -1       | ┥        | -            | Н         | Н        | Н          | Н        | ░∦           |                    | 95       | Н        | -+       | 7        | +        | ┪        | ╅        | +      | +         |   |  | 145      | H        | -        |          |          | $\dashv$      | -        | -        | ┪        | _             |
|                 | 45       | $\dashv$ | -        | -{       |          | _            | Н         | Н        | Н          | Н        | ::::         |                    | 96       | H        | -        | -+       | $\dashv$ | +        | +        | ╅      | $\vdash$  |   |  | 146      | ┪        | ┪        | ᅥ        | $\dashv$ | $\dashv$      | -        | +        | ┪        | _             |
| -               | 47       | $\dashv$ | ┥        | ┥        | ┪        | $\dashv$     | Н         | Н        | Н          | $\dashv$ | ⊪ŀ           | -                  | 97       | Н        | $\dashv$ | $\dashv$ | ╗        | +        | +        | ╅      | T         |   | _  | 147      | H        | ᅥ        | -        | ᅥ        | ᅥ             | ᅥ        | 7        | ┪        | _             |
| -               | 48       | ↤        | ┥        | +        | ┥        | $\dashv$     | H         | Н        | Н          | 닉        | ⊪            |                    | 98       | Н        | +        | +        | ┪        | 十        | 十        | 十      | П         |   |  | 148      | -        | -+       | 7        | -        | $\exists$     | ᅥ        | 十        | +        | _             |
|                 | 49       | ┪        | $\dashv$ | -+       | +        | ᅱ            | $\forall$ | H        | H          | $\dashv$ | ⊪            |                    | 99       | Н        | 7        | +        | -†       | 7        | +        | $\top$ | ${\sf T}$ |   | _  | 149      | $\dashv$ | 7        | 7        | $\dashv$ | ┪             | 7        | +        | 7        | -             |
| $\dashv$        | 50       | ┥        | -+       | -+       | ┪        | ┥            | $\dashv$  | $\vdash$ | H          | $\dashv$ | <b>     </b> |                    | 100      | Н        | ┪        | 7        | 十        | 寸        | +        | +      | ${\sf T}$ |   | _  | 150      | $\dashv$ | 7        | +        | ┪        | ᅥ             | ┪        | ┪        | 十        | ᅥ             |
|                 | VV.      |          | _1       |          | _1       |              |           | لب       | لب         | ليب      | :::::        | 1                  | 144      | لمسا     | _        | _        |          |          | <u>-</u> |        |           |   |  | , ,,,,   |          |          |          |          |               |          | _        | _4       |               |